

Roadmapping America's Measurement Needs for a Stronger Innovation Infrastructure: An Update

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Outline

- Background
 - Handout
 - Outline of USMS Roadmap
- Recent Developments
- Path Forward
- Discussion

USMS Roadmap

- I. Executive Summary
- II. Why Measurements Are Important
- III. USMS Process
- IV. Needs Assessment
 - Sections on different sectors
 - Section on cross-cutting needs
- V. Plan for Responding
- VI. Outstanding Issues

Recent Developments

- Holding pattern after June 2005 VCAT meeting
- Guidance from new NIST Director
 - Do within current org structure
 - Do with current resources
 - Leverage the extensive knowledge and expertise of the NIST staff
- Discussions with NIST Senior Management

Path Forward

- Define template for data collection
- Do in-depth assessments for initial set of 3-5 sectors
- Continue to conduct focused technical workshops
- Review existing roadmaps and workshop reports
- Carry out certain key functions centrally
- Adhere to original timetable

Template

- What is the measurement need?
- Who are the customers?
- What are the possible solutions?
- Who might provide these solutions?
- What resources are required?
- How important is this?

Types of Measurement Need

- New or improved measurement capabilities
- New or improved measurement-related services and support, e.g.,
 - Traceability to recognized measurement standards
 - Confidence in the competence of laboratories to perform certain measurements or tests
 - Greater uniformity in measurement results from different laboratories
 - Greater acceptance of measurement results by specifiers
- Changes in the structure or operation of the USMS itself

Sectors Under Consideration

- Semiconductor
- Something in nano
- Something in bio
- Something in homeland security
- Environment
- Automotive

Discussion